

## SHOCK EVENT ERROR LOGGING IN A DISK DRIVE

### Abstract of the Disclosure

A disk drive with a shock event logger that records information about a shock event as determined by a shock detection system. The shock detection system analyzes signals that result from movement of part of the disk drive and determines if the movement is due to a shock. Information about the shock event is recorded by the shock event logger to a non-volatile memory. In one embodiment, the shock detection system is a position error signal processor that detects shocks based on deviation of a transducer from its reference position, or based on time elapsed during settling of the deviated transducer. In one embodiment, the shock event logger records information about the shock event sequentially. In another embodiment, the shock event logger records the shock event information in the form of a histogram. Logged shock event information improves the manner in which the disk drive is diagnosed and serviced.

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